

OK to Enter 11/9/05

PENDING CLAIMS AS AMENDED

- Claim 1 (Cancelled)
- Claim 2 (Cancelled)
- Claim 3 (Cancelled)
- Claim 4 (Cancelled)
- Claim 5 (Cancelled)
- Claim 6 (Cancelled)
- Claim 7 (Cancelled)
- Claim 8 (Cancelled)
- Claim 9 (Cancelled)
- Claim 10 (Cancelled)

11. (Original) A method of noise estimation in a communication device comprising:
calculating a cross product of a received Pilot signal to generate a demodulated Pilot signal;
determining an energy of the demodulated Pilot signal; and
accumulating the energy over a frame to produce a received noise estimate.
12. (Original) The method of Claim 11, wherein calculating the cross product comprises calculating a cross product of the received Pilot signal with a filtered Pilot signal.
13. (Previously Amended) A method of noise estimation in a communication device comprising:
calculating a cross product of a received Pilot signal in a plurality of fingers of a rake receiver to generate a demodulated Pilot signal in each of the plurality of fingers;
time aligning the demodulated signals from each of the plurality of fingers in a corresponding plurality of deskew buffers;

summing the time aligned demodulated signals from the plurality of deskew buffers to generate a composite demodulated signal;
determining a magnitude of the composite demodulated signal; and
accumulating the magnitude of the composite demodulated signal over a frame.

14. (Previously Cancelled)

15. (Previously Amended) The method of Claim 13, wherein the communication device is a CDMA mobile station.

16. (Original) The method of Claim 13, further comprising:
determining an energy of the composite demodulated signal; and
accumulating the energy of the composite demodulated signal over a frame.

17. (Original) The method of Claim 16, wherein the communication device is a CDMA mobile station.

Claim 18 (Cancelled)

Claim 19 (Cancelled)

Claim 20 (Cancelled)

Claim 21 (Cancelled)

Claim 22 (Cancelled)

Claim 23 (Cancelled)

Claim 24 (Cancelled)

Claim 25 (Cancelled)

Claim 26 (Cancelled)

Claim 27 (Cancelled)

28. (Original) A noise estimator in a communication device comprising:

means for calculating a cross product of a received Pilot signal to generate a demodulated Pilot signal;
means for determining an energy of the demodulated Pilot signal; and
means for accumulating the determined energy over a frame to produce a received noise estimate.

29. (Original) The noise estimator of Claim 28, wherein the means for calculating the cross product comprises means for calculating a cross product of the received Pilot signal with a filtered Pilot signal.

30. (Previously Amended) A noise estimator in a communication device comprising:

means for calculating a cross product of a received Pilot signal in a plurality of fingers of a rake receiver to generate a demodulated Pilot signal in each of the plurality of fingers;
means for time aligning the demodulated signals from each of the plurality of fingers in a corresponding plurality of deskew buffers;
means for summing the time aligned demodulated signals from the plurality of deskew buffers to generate a composite demodulated signal;
means for determining a magnitude of the composite demodulated signal; and
means for accumulating the determined magnitude of the composite demodulated signal over a frame to produce a received noise estimate.

31. (Previously Cancelled)

32. (Previously Amended) The noise estimator of Claim 30, wherein the communication device is a CDMA mobile station.

33. (Original) The noise estimator of Claim 30, further comprising:

means for determining an energy of the composite demodulated signal; and
means for accumulating the determined energy of the composite demodulated signal over a frame to produce a received noise estimate.

34. (Original) The noise estimator of Claim 33, wherein the communication device is a CDMA mobile station.

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)